

REMARKS

Claims 28 and 29 stand objected to because of the following informalities:

Claims 28 and 29 refer to the “OLED device of claim 1”. Claim 1 uses the term “phosphorescent electroluminescent device” rather than OLED. It is suggested that claims 28 and 29 be amended for consistency with claim 1. Appropriate correction is required.

Claims 28 and 29 have been amended as suggested.

Claim 24 stands rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 24 has been amended to depend from claim 8 so the rejection is overcome.

Claims 1-19, 22, 25, and 28-30 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Ise et al. (US 2002/0028329). According to the Examiner:

Ise et al. discloses a light emitting element that may comprise a light emitting material and a host material (see abstract). The host material is represented by formula (I), which is $L^1 - (Q^1)_n^1$ (see par. 13). Q may be an aromatic group or a hetero-ring (see par. 14). L may be the following (boron-containing link):



(see par. 40, page 3). Q may include various hetero-rings comprising a nitrogen atom that may bond with the boron “L” group (see par. 42 and 47-49). Ise et al. further discloses that the Q groups may be further substituted. Ise et al. discloses the light emitting material of the light emitting layer is a phosphorescent compound such as the iridium complexes shown on page 50 (also see par. 147). Ise et al. teaches the weight ratio of the light emitting material to the host material is from 0.1% to 20% by weight (see par. 154) per claims 16-18. Ise et al. discloses the emission of white light at par. 200 per claim 25. With regard to claim 19, blue light emission is disclosed (see Table 1 and par. 196, page 55). Various displays may incorporate the device with regard to claims 28 and 29 (see par. 178). Although Ise et al. fails to exemplify a device wherein the host material of the light

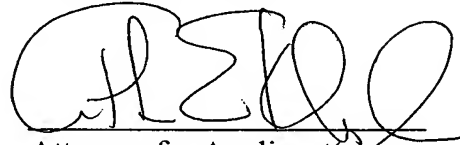
emitting layer is comprised of a material according to formula (I) wherein L is the boron linking group and the Q groups are either aromatic or hetero-aromatic nitrogen-containing rings, it would have been obvious to one of ordinary skill in the art at the time of the invention to have formed a device with a boron compound as required by the claims, because Ise et al. clearly teaches boron-containing host compounds within the claim requirements and further discloses phosphorescent compounds as dopants in the light emitting layer.

Applicants note that the Ise patent requires that in Formula (I), [0035], each Q₁ is an aromatic hydrocarbon ring or an aromatic heterocyclic ring, [0042]. The aminogroup containing R^{3a} and R^{3b} in Formula (1) cannot possibly be such an aromatic ring group since the claim does not now allow R^{3a} and R^{3b} to form a ring. Thus, Q₁ does not teach or suggest the aminogroup containing R^{3a} and R^{3b} that does not form a ring. Further, there is no suggestion of what type of group L₁ to include with which type of group Q₁ although all Group Q₁s are outside the present claims. According to formula A-I, [0045], the aromatic ring may include a link directly between L and a nitrogen ring member of an aromatic compound. Present claim 8 does not encompass the possibility of R³ and R⁴ forming a ring and so is outside the teachings or suggestions of the Ise patent.

The comparative data in the present application shows that the corresponding carbazole biphenyl compound employing an aromatic amine with a biphenyl "L¹" group, within the teachings of Ise, is inadequate by comparison to the non-aromatic ring amine of the present invention.

In view of the preceding amendments and remarks, the Examiner is respectfully requested to withdraw the outstanding rejection and to pass the subject application to Allowance.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read 'AKL', written over a horizontal line.

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If the Examiner is unable to reach the Applicant(s) Attorney at the telephone number provided, the Examiner is requested to communicate with Eastman Kodak Company Patent Operations at (585) 477-4656.